

Febr, 7, 1888
 W. ganser 2 ad 4 = 4
 " " 3 = 4 1/2
 (was recorded) = 12

Feb 20 1103. Jan 7, 1888.
 and 2 ad 5 (scant) 1.

Sacred Songs and other lies by Maj. E. K. O'Farrell
 Subaltern Officers wish me well(?)
 By wishing me every day in hell
 And my soldiers second the wish they tell
 But I'm mine in a requiem that Con'ore

I caught a Gila Monster (Heloderma) on the
 San Pedro River Arizona, measuring 38 inches
 in length.

Reformer Prof J E Jones
 Chas Wallace

E. K. O'Farrell

Febr. 10, 1888.				10
Cooper's Hawk			16	
Merganser	♂		3	$3\frac{1}{2}$
Gambel's Quail	♂			$\frac{1}{16}$
"	"	♂		$\frac{6}{16}$
"	"	♂		$5\frac{1}{2}$
"	"	♂		$\frac{1}{16}$
"	"	♂		$5\frac{1}{2}$
"	"	♀		$\frac{1}{16}$
"	"	♀		$6\frac{1}{8}$
				16

Females average
fully as much as
males?

Edgar A. Mearns
(over)

Carpenter Hawk ♂ ad.
Irides cherry-red.
Above greenish. Bill
bluish at base, blackish
at tip. Legs & feet
light greenish-yellow
Claws plumbeous

Eyes of Western Horned
Owl. (*Bubo virginianus*
subarcticus) Ft. Verde,
Arizona. March 26,
1888.

6048. *Merganser amer.* ♂ ad.
6047. *Ardea herodias* ♂ ad.
6016 *Glaucionetta claus-*
= gula americana ♂ ad.
Fort Verde Arizona
No. 6047 with parasites
attached to mucous membranes

Tongues of
Olor columbianus ♀ juv.
Merganser americana
♂ ad. Tongue to be
etc.

Olor columbianus
♀ juv. Tongue,
Trachea, etc.

6048 ♂ ad. *Merganser*
americana. Febr. 10, 1888

6047 ♀ ad. *Ardea herodias*
Febr. 9, 1888

6016 *Glaucionetta clausula*
americana Febr. 3, 1888.

All from Fort Verde,
Arizona.



OFFICIAL BUSINESS.

Wm. H. McAllister

Set 2. 6. 1. on Fort Verde

Arizona May 18, 1888

5 5 5

No.	Name.	Address.
1.	<i>Turdus uetulatus</i>	Santa Rita Mts.
2.	<i>Taphoph. bendirei</i>	Tucson & vicinity.
3.	" <i>cuneirostris palmeri</i>	Abundant about
4.	" <i>lecontei</i>	Between Maricopa
5.	<i>Poliophtila plumbea</i>	Tucson.
6.	<i>Parus meridionalis</i>	Morse's Hill
7.	<i>Geothlypis trichas</i>	mexicana
8.	<i>Geothlypis aedon</i>	
9.	<i>Peucedramus olivaceus</i>	Santa Rita
10.	<i>Dendroica coronata</i>	
11.	" <i>townsendi</i>	Tucson and
12.	<i>Sciurus naevius</i>	Tucson
13.	<i>Setophaga picta</i>	Santa Rita
14.	<i>Vireo solitarius</i>	cassini. Common in the
15.	<i>Vireo huttoni</i>	stephensi. Morse's M.
16.	<i>Geothlypis trichas</i>	mexicana. Common
17.	<i>Geothlypis trichas</i>	bicolor. Common in
18.	<i>Pyrrhuloxia hepatica</i>	Common in
19.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
20.	<i>Pyrrhuloxia hepatica</i>	mexicana. Common
21.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
22.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
23.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
24.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
25.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
26.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
27.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
28.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
29.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
30.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
31.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
32.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
33.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita
34.	<i>Pyrrhuloxia hepatica</i>	cooperi. Santa Rita

Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Amount of Bill.	Amount of Bill.
<p> <i>Ceanothus</i> <i>gouletii</i>. May 21, 1884. both north and south. Tucson, San Pedro R. and Phoenix. cop. hills & Lib. Bend. The sub. 2 specimens. 2 to 10,000 feet west of Bowie Morrie's Mill, Chiricahua Mountains. Tombstone. Not common. Catalina Mts. Morrie's Mill. Leir. Mts. Chiricahua Mountains. Santa Rita Mountains. Apr. 28 & May 18. May 4. and Chiricahua Mts. (Morrie's Mill). Cienega Station, Tucson, and Santa Rita Mts. Chiricahua Mts., Santa Rita Mts. March 2 to May Tucson etc. "migrations" Cienega Station Apr. 16. Santa Rita Mts. N.W. Common on San San. S. of Tucson, etc. Chiricahua Mts. most common on east side. Chiricahua Mts. - 30th March, etc. Tucson - Sulphur Spring Valley. Lowell Middle of April. Mill, Cowler and Santa Rita Mts. Near Tucson. Febr. 1880 fide Slighter. Sparingly near Tucson Cardinal near Tucson. like Duck's "quack" About Tucson (both sp.) Size, large. Abund. Semper resident at Lowell Canon beside stream in Santa Rita Mountains Mts. "not very common." May 18. Santa Rita & Chiricahua Mts. Ft. Boyard, Mts. Tucson April and May. </p>													

No.

Name.

Address.

69. *Poliöptila melanura*. Ringgold Bldg.
 70. *Helminthophaga hesperis*
 71. *Dendroica gracia*. Whipple (leaves)
 72. *Occidentalis*
 73. *Myiodytes pileatus*
 74. *Caterus parisorum*
 75. *Callipepla squamata*

Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Amount of Bill.	Amount of Bill.
------	------	--------	--------	------	-------	-------	---------	-------	------	------	------	--------------------	--------------------

Texas, Ariz., Pa., New Mexico, Yuma, etc.
 San Antonio, El Paso, Fort Worth, Dallas, Houston, etc.

2223401089523162524267
 26839012294122915363417

No.

Name.

Address.

Jan.

Feb.

March.

April.

May.

June.

July.

August.

Sept.

Oct.

Nov.

Dec.

Amount
of Bill.Amount
of Bill.

103 *Buteo borealis calurus* lad.
 104 Sycamore Creek, Sycamore Basin
 105 Al. T. May 9, 1888
 106 Parent of set of 2 eggs
 107 580 1420 430; 250
 108
 109 cul. & bill 42; cere 16
 110
 111 cul. 30 tip of bill to center of cul 56
 112 to cere 95 Base to cere 68
 113
 114 gape 146 diameter eye 15.5
 115 tib 131 tars 93 cul 70
 116
 117 cl 24 hte 59 cl 33
 118
 119 inner cl 31 outer cl 19
 120
 121 tibiae slightly barred.
 122
 123 Gizzard contained a small
 124 striped snake. No more
 125 eggs would have been
 126 deposited
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136

Poocetes graminea complanata lad.
May 6. Sycamore Creek Ariz
161; 370; 82 66 cul 11
gape 13 tib 28 tars 20.5
note 19 cl 6.2 hte 15 cl 7.8

Habia melanocephala lad.
first seen May 7 at Huletts
Horse Ranch, Summit of
divide, W. of Bloody Basin

No.

Name.

Address.

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May 5, 1888.
Saw one ♀ *Myiophila*

May 6, 1888.
Rode to Bloody Basin,
camped at
Puranga where Cooper, a male
shot on Verde River at Gordons
River, near its mouth where
called which resembles a
S. bycatcher's, before I saw it
I saw a lonely & bit small
when I caught it.

Amphispiza bilineata, a
young one, just able to
fly a little way.

Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Amount of Bill.	Amount of Bill.
------	------	--------	--------	------	-------	-------	---------	-------	------	------	------	--------------------	--------------------

Notes on
Melospelia leucoptera
calyptae costae
callipepla
astragalinis
etc. pp. 172, 173

January.

No.	Patient.	T	F	S	Am't.	Prescription.
		1	2	3		

Melospiza leucophaea. makes a
single note. Its note is "cuck-oo",
notes given with force & monotonous
driving beside streams. The
of tail conspicuous in flight.

Geothlypis costae. - Prefers the
acacia frequent, mesquites
magnificence. A female attacked
in the air and drove him
Phainopepla nitens families
near stream & acacia trees.

Geothlypis trichas singing ex-
posed. I saw a Thrasher found a
nest of which it breeds.
Geothlypis Chrysoides seen
leucophaea had nest in
beside road in Black Canon.
I passed & nearly allowed
a *Parus* *crinitus* to breed
in the nest. I saw a pair of
in an *Astragalinus* nest. I saw
had a few dusky feathers.
May 1921 *Cardinalis* nest. I saw
in the Big Creek. Both parents in
the dropping branches of a
the hollow summit of which
nest 6 ft. from ground. Made
the nest of cottonwood
like wood Thrush.

January.

No.	Patient.	T	F	S	Am't.	Prescription.
		1	2	3		

flapping & scurrying sound in
cuck-oo (4 notes or 12. 2-syllabic
used in song. Hand off
curved wing bars & white tip
tail.

desert willow flowers &
grow in flower. I saw
red a squalling Killedeer
to the ground & made him shut up
of young with parents on

visibly in willows along Que Pasa
cleats to Bumblebee. I saw
also Cactus Wren, but no
beyond Swelling's ranch.
I saw a *Berex* Canyon. *Melospiza*
palmeri (grey-backed) seen
sat on nest while I walked
me to take her off with my bag
in the white cactus building
(red line plant). I saw some
at Swelling's Ranch.
I saw a male
one egg was found on
it. The nest was built in
large willow stump. It
was a nest of *Geothlypis*
externally of coarse sticks &
leaves. Lined with root

RECORD OF PRACTICE.

January.

May.

No.	Patient.	Su 4	M 5	T 6	W 7	T 8	F 9	S 10	Am't.	Prescription.
-----	----------	---------	--------	--------	--------	--------	--------	---------	-------	---------------

Empidonax				X						traillii ju
Bulorides				X						virgatus
Geothlypis				X						trichas
Hal. co.				X						pyrgonius
Empidonax							X			hammondi
colaptes										

April 24 *Perisoreus erythrogaster*,
at Denning a male sat on a
telegraph wire singing a
distinct song.

Ardea tricolor ruficollis (Gosse). Louisiana Heron.
Ardea rufescens ^{and} Gmel. Reddish Egret.

<u>Ardea tricolor ruficollis</u>		<u>t. ruficollis</u>	
3349	♀ juv. Sept. 24, 1884	Beaver Creek, near Ft. Verde, Arizona.	211 ✓
4977	♂ ad. Aug. 27, 1886	Verde River at Fort Verde, Arizona.	44 ✓

Ardea rufescens

Callipepla gambeli Set of 20. Fort Verde, Arizona.
May 29, 1886.

Zenaidura macroura. Set of 2. Fort Verde, Arizona,
May 29, 1886.

Zenaidura macroura. One egg. Fort Verde, Arizona,
May 29, 1886.

Harporhynchus crissalis. Set of 2. Fort Verde, Ariz.
In lower branches of cottonwood-tree. May 29, 1886.

Box No. 10.

(Box No. 10) Mimus polyglottus. Set 4. Fort Verde, Arizona
May 29, 1886.

Zenaidura macroura Set 2. Fort Verde, Arizona
May 29, 1886.

Zenaidura macroura. Set 2. Fort Verde, Arizona.
May 29, 1886.

Carpodacus frontalis Set 5. Fort Verde, Arizona.
May 29, 1886.

Petrochelidon lunifrons. Set 4. Post Hospital
building, Ft. Verde, Arizona. May 30, 1886.

Phainopepla nitens. Set 2 fresh eggs. Mesquite
bush, 6 feet from ground Nest kept. June 6, 1886,
Fort Verde, Arizona.

Phainopepla nitens. Set 2 eggs & nest. Eggs
contained large embryos, and were very dark,
having a reddish ground. Mesquite; 6 feet.

June 6, 1886. Fort Verde, Arizona.
Cephalopyx (Callipepla) gambeli. Set 10. Under
a sage bush, June 7, 1886. Ft. Verde, Arizona.

Geothlypis trichas occidentalis. Set 3 eggs containing large embryos. Nest built in a tussock of sedge-grass in the edge of Beaver Creek, near Ft. Verde, Arizona, June 7, 1886.

Box No 11.

Minus polyglottus. Set 4 eggs, containing small embryos. June 6, 1886 Mesquite, 7 feet from ground Fort Verde, Arizona.

Pipilo aberti. 1 addled egg taken from a nest in a black walnut tree on Beaver Creek, near Ft. Verde, Arizona, June 7, 1886. The young were largely grown.

Icteria virens longicauda. Set 4 fresh eggs. Nest built 3 ft. from ground in the dense lower branches of a cottonwood beside the Verde River. Nest preserved. Ft. Verde, Arizona, June 6, 1886.

??? Piranga hepatica. Set $\frac{a}{3}$. 23 miles east of Ft. Verde, Arizona. July 1, 1886. There were two very anxious Tanagers in the oak-tree in which I took this nest; but it may be a Mockingbird, as the eggs resemble theirs, and I did not see the birds on the nest.

Zenaidura macroura Set 2. Mud. Tanks, 20 miles East of Fort Verde, Arizona, July 1, 1886. Nest in an Oak-tree.

Columba fasciata. Set $\frac{a}{1}$, Parent (No. 4944 ad) taken as she flew from nest. Natural Bridge, Pine Creek, Arizona. July 4, 1886.

Minus polyglottus. Set 4 June 26, 1886. Cottonwood hedge, 7 feet, Incubation commenced.

Myiarchus cinerascens. Set 7. June 26, 1886. Nest in fence-post (Frank Jordan's rancho) 4 feet from the ground, in old burrow of Reus scalaris. Contained 1 half-fledged young + 1 egg.

Chondestes gram. strigatus. Set 2 fresh. In
Cottonwood hedge, 7 feet, nest large & bushy.
June 26, 1886. Fort Verde, Arizona.

Sayornis nigricans. Set $\frac{A}{3-1}=2$. June 26,
1886. Fort Verde, Arizona. Nest built under
Jordan's mill-race.

Lathropeus mexicanus conspersus. Set $\frac{A}{6}$ with
nest. May 27, 1886. Gonto Basin, Arizona.

Collected by Willard Rice, who discovered it when
handling a pile of rocks, while building a road.
Hirundo erythrogastra. Set 4 Head's (the
Post Trader) barn; Ft. Verde, Arizona, June 11, 1886.

Phainopepla nitens. Set 2. Ft. Verde, Ariz.
May 29, 1886.

Minus polyglottus. Set 4 Ft. Verde, Arizona.
May 29, 1886.

Zenaidura macroura Set 2 Ft. Verde, Arizona.
May 29, 1886.

Harporhynchus crissalis 3 Ft. Verde, Arizona.
May 29, 1886.

Callipepla Box No. 12

Callipepla gambeli. Set of 20 Ft. Verde, Arizona,
May 29, 1886.

Zenaidura macroura Set 2 Ft. Verde, Ariz.
May 29, 1886.

Icterus gallocki. Set 3 June 4, 1886 Ft. Verde,
Arizona.

Minus polyglottus. Set 3 Nest in a spring "palo-
Verde" on the eastern mesa near Ft. Verde, Ariz. June 3, 1886.

(Box 13)

Box No. 13.

Mimus polyglottus. Set 3. June 4, 1886.
Fort Verde, Arizona.

Zenaidura macroura Set 2 nest in grape-vine,
6 feet from ground. May 14, 1886 Ft. Verde, Arizona.

Mimus polyglottus. Set. 4. June 4, 1886. Fort
Verde, Arizona

Carpodacus frontalis Set 5. (The first taken
in 1886 () Same date as Scops trichopsis
and Picus scalaris.

Phainopepla nitens. Set 3. June 6, 1886. Fort
Verde, Arizona. Nest in mesquite, 5 feet. Fresh

Phainopepla nitens. Set. 3 June 6, 1886. Fort
Verde, Arizona. Nest in mesquite, 5 feet from
the ground, June 6, 1886. Small embryos

Mimus polyglottus set 4. June 6, 1886.
Mesquite, 4 feet. Ft. Verde, Arizona.

Icteria virens longicauda. Set 4 in mesquite
4 feet. Beaver Cr., June 7, 1886. Contained
small embryos. Egg of Molothrus in nest.

Mimus polyglottus. Set 4. June 6, 1886
Fort. Verde, Arizona. Mesquite 4 feet from ground

Molothrus ater obscurus 1 egg in nest of
Icteria virens longicauda (2nd Set above).

Chordeiles virg. henryi, Set $\frac{A}{2}$, Flagstaff,
Arizona, June 18, 1887. ♀ parent preserved.

Spizella breweri $\frac{A}{4}$ No. 180. Ft. Verde, Arizona,
May 30, 1884. Nest in a low sagebush.

Petrochelidon lunifrons. Set No. 185 $\frac{2}{4}$. Fort
Verde, Arizona, June 4, 1884.

Box No. 14.

Set No.	$\frac{2}{3}$	<u>Campylorhynchus brunneicapillus</u> .
" "	$\frac{C}{1}$	<u>Cardinalis cardinalis superbus</u> .
" "	$\frac{4}{4}$	<u>Pipilo aberti</u> .
" "	$\frac{B}{6}$	<u>Lanius ludovicianus</u>
" "	$\frac{1}{1}$	<u>Pipilo aberti</u> .
" "	$\frac{E}{3}$	<u>Harporhynchus curvirostris palmeri</u> .
" "	$\frac{A}{1}$	<u>Melospiza leucoptera</u> .
" "	$\frac{B}{3}$	<u>Cardinalis cardinalis superbus</u> .
" "	$\frac{D}{3+1}$	<u>Harporhynchus cinereus bendirei</u>
" "	$\frac{1+3}{1+3}$	<u>Molothrus ater obscurus</u> .
" "	$\frac{4}{4}$	<u>Mimus polyglottus</u> .
" "	$\frac{A}{4}$	<u>Myiarchus cinerascens</u> .

Box No. 15.

Set No.	$\frac{D}{2}$	<u>Harporhynchus curvirostris palmeri</u> .
Set No.	$\frac{A}{3}$	<u>Sturnella neglecta</u> .
" "	$\frac{A}{2}$	<u>Harporhynchus cinereus bendirei</u>
" "	$\frac{2}{2}$	<u>Phainopepla nitens</u> .
" "	$\frac{Q}{1}$	<u>Harporhynchus lecontei</u> .
" "	$\frac{H}{5}$	<u>Campylorhynchus brunneicapillus</u> .
" "	$\frac{B}{3}$	<u>Harporhynchus curvirostris palmeri</u> .
" "	$\frac{A}{4-3}$	<u>Icterus parisorum</u> .
" "	$\frac{5-4}{5-4}$	<u>Carpodacus frontalis</u> .
" "	$\frac{7}{4}$	<u>Harporhynchus cinereus bendirei</u>
" "	$\frac{C}{1}$	<u>Harporhynchus curvirostris palmeri</u> .
" "	$\frac{4}{4}$	<u>Pipilo aberti</u> .
" "	$\frac{2}{1}$	<u>Campylorhynchus brunneicapillus</u> .
" "	$\frac{A}{4-1}$	(Species undetermined.)
" "	$\frac{2}{3-1}$	<u>Harporhynchus cinereus bendirei</u> .

Box 16.

(Box 16) No.	$\frac{B}{4}$	<u>Pipilo aberti.</u>
Set No.	$\frac{B}{3}$	<u>Harporhynchus cinereus bendirei.</u>
" " 1 + 2 young	$\frac{A}{4}$	<u>Campylorhynchus brunneicapillus.</u>
" "	$\frac{A}{3}$	<u>Harporhynchus curvirostris palmeri.</u>
" "	$\frac{A}{5-2-1}$	<u>Lanius ludovicianus excubitorides.</u>
" "	$\frac{B}{2}$	<u>Phainopepla nitens.</u>
" "	$\frac{B}{5}$	<u>Mimus polyglottus.</u>
" "	$\frac{B}{3}$	<u>Harporhynchus lecontei.</u>
" "	$\frac{A}{2}$	<u>Zenaidura macroura.</u>
" "	$\frac{A}{3}$	<u>Cardinalis cardinalis superbus.</u>
" "	$\frac{A}{1}$	<u>Pipilo fuscus mesoleucus.</u>
" "	$\frac{A}{1}$	<u>Tyrannus vociferans.</u>
" "	$\frac{B}{3}$	<u>Campylorhynchus brunneicapillus</u>

Box No. 17.

Set No.	$\frac{B}{2}$	<u>Buteo abbreviatus.</u>
" "	$\frac{A}{1}$	<u>Buteo abbreviatus</u>
" "	$\frac{B}{1}$	<u>Buteo borealis calurus.</u>
" "	$\frac{C}{2}$	<u>Geococcyx californianus.</u>
" "	$\frac{B}{4}$	<u>Polioptila plumbea with nest.</u>

Box No. 18.

Set No.	$\frac{B}{5-2}$	<u>Geococcyx californianus</u>
" "	$\frac{B}{2}$	<u>Melospiza cinerea.</u>
" "	$\frac{B}{1}$	<u>Lophortyx gambeli</u> (Egg white; taken from body of parent.)
" "	$\frac{A}{1}$	<u>Callipepla gambeli.</u>
" "	$\frac{A}{13}$	<u>Callipepla squamata.</u>

Box No. 19.

- Set No. $\frac{C}{2}$ Melospiza leucoptera. Parent (No. 4058) taken. Nest in palo verde close beside the road, Black Pañon, near Bumblebee, Arizona. May 17, 1885.
- Set No. 11 Callipepla gambeli. Parent (No. 3902 ♀ ad) preserved. Between Fort Lowell and Mountain Spring, Arizona. April 7, 1885.
- Set No. 2 Zenaidura macroura. Ash Creek, Central Arizona. Nest placed on the bare ground, the locality being open, stony country, covered with scoria. May 19, 1885.
- Set No. 2 young Trochilus alexandri. Nest and two young ones. (No. 4069, ♀ ad, is the parent). Mountain Spring, Arizona. May 5, 1885.
- Set No. 2-1 Hummingbird. Nest & one egg. Agua Fria, June 1, 1885.
- Set No. 2 Hummingbird nest & 2 eggs. in Box No. 20.
- Set No. 2 Campylorhynchus brunnei capillus. April 5, 1885. In a cholla cactus 2 feet from the ground. Taken by J. H. Mason, Arizona.

Box No. 20.

- Set No. $\frac{A}{3}$ Buteo borealis calurus. Cienega Creek at, Hance's rancho, 11 miles W. of Ft. Verde, Arizona. March 25, 1885.

Box No. 21.

- Set. $\frac{A}{4-1}$ Apelocoma woodhousei. near Bumblebee, Central Arizona, May 18, 1885. Embryos nearly ready to burst out of the shells.
- Set. $\frac{E}{4}$ Campylorhynchus brunnei capillus. April 3, 1885. Near Red Rock, Arizona. Nest in mesquite-tree, about 20 feet from the ground.

- Set No. $\frac{2}{3}$ Campylorhynchus brunneicapillus. April 30, 1886.
Foothills near Bowie Station, Arizona.
- Set No. $\frac{B}{4}$ (Species not known). March 31, 1885, Maricopa,
Arizona. Nest purse-shaped, exactly like
the Cactus wren's.
- Set No. $\frac{C}{3-2}$ Harporhynchus cinereus bendirei. April 3, 1886.
Pacheco Station, Arizona. Only one egg preserved, dried.
- Set No. $\frac{A}{5}$ Campylorhynchus brunneicapillus. Eggs ready
to hatch; only one blown, the rest dried. March
31, 1885, Maricopa, Arizona. Nest in a cactus
seven (7) feet from the ground.
- Set No. $\frac{E}{3}$ Harporhynchus pusillalis. Montezuma's Well,
Beaver Creek, Arizona, April 2, 1886. Eggs slightly
incubated. Nest in a haw-bush, 3 feet from ground.
- Set No. $\frac{6}{6}$ Lanius ludovicianus excubitorides. April 8,
1886. Nest in midst of a dense and spiny haw-
bush. Bulky and softly lined - feathers, etc. 4 feet
from ground. Incubation somewhat advanced.

- Set No. $\frac{3}{3}$ ~~Minus polyglottus~~ Aphelocoma woodhousei, May 8, 1886. Foothills
of Middle Verde Valley, Arizona. Oak-tree,
10 feet. 3 eggs were added (they were blown) and 2
contained large embryos. See Journal Vol. II, p. 217.
The label in the box with this set reads "Aphelocoma woodhousei".

Box No. 22.

- Set No. $\frac{4}{4}$ Minus polyglottus. May 13, 1886. Ft. Verde, Ariz.
Nest in a mesquite-bush, 3 ft. from ground.
- Set No. 177 $\frac{a}{4}$ Pipilo aberti. May 29, 1884. Ft. Verde, Arizona.
(Continued next sheet.)

Sheet 4.

List of Birds' eggs.
(Box No. 22 - Concluded.)

- Set No. 2 Harporhynchus crissalis. Fort Verde, Arizona,
February (22nd?) (see Journal for date. Male parent
secured) 1888. Nest in a slender species of
Cylindropuntia, bearing pale greenish-yellow
flowers, growing up in a mesquite-bush. It
was very effectually guarded. I got at it with
difficulty. I preserved the inner part
of the nest. The whole structure would
fill a half-bushel-measure, and some
of the sticks were apparently (seemingly) too
heavy for so small a bird to raise from
the ground.
- Set No. 182 $\frac{a}{2}$ Zenaidura macroura. June 3, 1884. Ft. Verde,
Arizona.
- Set No. $\frac{2+1}{2}$ Vireo pusillus. June 26, 1884. Ft. Verde, Ariz. Nest contained
Molothrus a. obscurus, one egg.
- Set No. $\frac{3}{2}$ Phainopepla nitens. June 26²⁶, 1884. Ft. Verde, Arizona.
- Set No. $\frac{2}{2}$ Dendroica aestiva. June 26, 1884. Ft. Verde, Arizona.
- Set No. $\frac{3}{3}$ July 2, 1884. Pipilo aberti. Ft. Verde, Arizona.
- Set No. $\frac{a}{4}$ Harporhynchus crissalis. June 16, 1884. Ft. Verde, Arizona.
- Set No. $\frac{a}{2-1}$ Pyrocephalus rubinus mexicanus. June 16, 1884.
Fort Verde, Arizona.
- Set No. $\frac{3}{2}$ Phainopepla nitens. June 18¹⁸, 1884. Ft. Verde, Arizona.
- Set No. $\frac{3}{3-4}$ Carpodacus frontalis. June 14, 1884. Ft. Verde, Arizona.
- Set No. $\frac{3}{3}$ Icteria virens longicauda. June 18, 1884 do
- Set No. $\frac{4-3}{4}$ Mimus polyglottus. June 14, 1884 do
- Set No. $\frac{1}{1}$ Zenaidura macroura. June 16, 1884 do Au
added egg. Nest deserted.

Set No 175 $\frac{A}{4}$ Icterus virens longicauda. May 26, 1884. Ft. Verde, Arizona.
 " " $\frac{2-1}{2-1}$ Phainopepla nitens. June 18, 1884. do

Box No. 23.

No 174 Set $\frac{A}{5-1}$ Minus polyglottus May 24, 1884, Ft. Verde, Arizona.
 No. Set $\frac{2}{2}$ Harporhynchus crissalis. March. 11, 1887. Ft. Verde, Arizona. Nest found March 11, and left until the 14th, when no more eggs had been laid, so I took it.
 No Set $\frac{4}{4}$ Harporhynchus crissalis. March 15th, 1887. Found on March 12th, when it only contained two eggs. Fort Verde, Arizona.
 No. 178 Set $\frac{B}{5}$ Minus polyglottus. May 30, 1884. Ft. Verde, Arizona.
 No Set $\frac{A}{2}$ Phainopepla nitens. June 14, 1884. Ft. Verde, Arizona. Nest on fork of cottonwood-tree near Post.
 No. 183 Set $\frac{B}{3}$ Zenaidura macroura. June 3, 1884. Ft. Verde, Arizona. Nest in cottonwood 10 feet. The only one I ever found having three eggs. Two birds were not laying together. I shot the female as she flew from the nest.
 No. 181 Set $\frac{C}{5}$ Minus polyglottus. June 3, 1884. Ft. Verde, A. S.
 No Set $\frac{3-3}{3-3}$ Lophortyx gambeli. 4 Shells from which young quails had hatched. Ft. Verde, Arizona, June 22, 1884.
 No. Set $\frac{3}{3}$ Empidonax pusillus. June 21, 1884. Ft. Verde, Arizona.
 No. Set $\frac{2}{2}$ Zenaidura macroura. do do
 No Set $\frac{3-1}{3-1}$ Phainopepla nitens, do do

Box No. 24.

No. Set $\frac{B}{1}$ Geococcyx californianus. June 26, 1884. Ft. Verde.
 No. Set $\frac{2}{2}$ Ptilo borealis calurus. March 31, 1887. Ft. Verde, Arizona. Parents are Nos. 5207 & 8.

(Box No 24 - Concluded.)

No. Set 4 Aegialitis vociferus. May 2, 1887, Ft. Verde, Ariz.

No. Set ^A5 Eulicia americana. May 11, 1887, From Peck's Lake, Upper Verde Valley, Arizona.

578 Eggs in Boxes 1 to 24.

Box No. 25.

No. Set ^A10 Callipepla gambeli. June 24, 1884. Ft. Verde, Arizona.

" 184 " ^C2 Zenaidura macroura. June 3, 1884. Ft. Verde, Arizona.

" ^B3 Pipilo aberti. June 13, 1884. do

" ^a4 Tyrannus verticalis. June 4, 1885. do Both parents preserved. Nest built in a sycamore-tree, 20 feet from the ground.

No. Set ²5 Mimus polyglottus. June 10, 1884. Ft. Verde, A. T.

No. Set - Icteria virens longicauda. June 4, 1885. do Nest built in Sugar-berry (hackberry) 6 ft. high, on Beaver Cr.

No. Set ^a4 Amphispiza bilineata. June 13, 1884. Ft. Verde, Arizona.

No. Set ^a4 Sayornis saya. June 9, 1884. do

No. Set ¹⁺¹10 Icteria v. longicauda } June 4, 1884. do
Molothrus a. obscurus

No. Set 2 Zenaidura macroura. June 4, 1884. do.

No. Set 1 Dendroica aestiva. June 4, 1884. do Nest in high fork of largest China berry tree, 15 or 20 feet.

Box No. 26.

No. Set 3 Pipilo aberti. April 8, 1887. Ft. Verde. See Journal page 193.

No. Set ^C3 Icteria virens longicauda. June 9, 1884. Ft. Verde, Arizona.

No. Set 2 Zenaidura macroura. June 13, 1884. Ft. Verde, Arizona.

No. Set ^C3 Pipilo aberti. June 13, 1884. Ft. Verde, Arizona. a full set.

No. Set 3 Icteria virens longicauda. June 10, 1884. Ft. Verde, Ariz.

No. Set 2 Zenaidura macroura. June 10, 1884. do

- No. Set $\frac{a}{6}$ *Carpodacus frontalis*. June 13, 1884. Ft. Verde, Arizona.
 No. Set $\frac{3}{3}$ *Empidonax pusillus*. June 13, 1884. do
 No. Set $\frac{a}{4-1}$ *Auriparus flaviceps*. June 5, 1884. do
 No. Set 4 *Geothlypis trichas occidentalis*. June 5, 1884 do
 No. Set $\frac{a}{3}$ *Empidonax pusillus*. June 7, 1884. do
 No. Set $\frac{c}{1}$ *Molothrus ater obscurus* } June 13, 1884 do
 Set $\frac{1}{111}$ *Vireo pusillus*
 No. 176 Set $\frac{a}{4-3+1}$ *Vireo pusillus et Molothrus obscurus* May 27, 1884. do
 No. Set $\frac{3}{3}$ *Phainopepla nitens*. June 19, 1884. do
 No. Set $\frac{4}{3}$ *Phainopepla nitens* June 19, 1884 do
 No. Set 2 *Zenaidura macroura*. June 18, 1884 do

Box No. 27.

- No. Set $\frac{2}{2}$ *Phainopepla nitens*. June 19, 1884. Ft. Verde, Arizona.
 No. Set 2 *Zenaidura macroura*. June 21, 1884. do
 No. Set $\frac{a}{2}$ *Melospiza fasciata fallax*. June 12, 1885 do Parents:
 Nos. 40902 + 40917. Nest in a cottonwood sapling, 8 ft.
 from the ground, in an exposed situation, near the
 close beside the Verde River.
 No. Set $\frac{x}{2}$ *Zenaidura macroura*. Nest 5 feet high, in mesquite.
 June 3, 1885. Ft. Verde, Arizona.
 No. Set $\frac{a}{6-2}$ *Salpinctes obsoletus*. June 5, 1885. No 4098 ? parent.
 Fort Verde, Arizona.
 No. Set 3 *Carpodacus frontalis*. June 3, 1885. Ft. Verde, Arizona.
 No. Set 2 *Zenaidura macroura*, May 21, 1886. Ft. Verde, Ariz. Nest in cottonwood.
 No. Set 1 " " do do do
~~No. Set $\frac{a}{4}$ *Actrogalinus psaltria*. do do do~~
~~Nest in willow. Parent procured.~~
 No. Set 3 ~~*Zenaidura*~~ *Melospiza fasciata fallax*. May 26, 1886. Ft.
 Verde, Arizona. No. 4865 ? parent. Nest placed close to
 the water of sluice of Verde River, in a small tuft of bushes
 and grass.
 (Continued on Sheet 5.)

Sheet 5.

(Box No. 27—Concluded.)

- No. Set 3 Tyrannus verticalis. May 21, 1886. Ft. Verde, Arizona.
Nest in sycamore-tree.
- No. Set 4 Icteria virens longicauda. May 21, 1886. Ft. Verde, Arizona.
Nest in "asparagus" composite.
- No. Set 4 Astragalinus psaltrici. May 21, 1886. Ft. Verde, Arizona.
- No. Set 3 Dryobates scalaris. May 16, 1886. Cottonwood-tree, 10 ft. ^{least}
in Port of Ft. Verde, Arizona. Nest has been used 3 years at
- No. Set 1 Carpodacus frontalis. 1 egg. May 21, 1886. Ft. Verde, Ariz.
Nest in cottonwood. Egg of peculiar form.
- No. Set 3 Carpodacus frontalis. April 3, 1887. Box Cañon of the
Lower Verde. Nest built in the thatch roof of a cabin.
- No. Set $\frac{A}{3}$ Spiza amoena. June 2, 1886. Ft. Verde, Arizona.
- No. Set 3 Carpodacus frontalis. May 26, 1886. Ft. Verde, Arizona.
- No. Set 3 Carpodacus frontalis May 26, 1886 do

Box No. 28.

- No. Set $\frac{B}{4}$ Egialitis vociferus. May 26, 1886. Ft. Verde, Arizona.
- No. Set 3 Actitis macularia. May 26, 1886. do.
- No. Set $\frac{A}{5}$ Megascops asio lichopsis. April 27, 1886 do
- No. Set 3-1 Geococcyx californianus. July 10, 1885. Ash Creek,
at Hudsons Station, Arizona.
- No. Set $\frac{A}{4}$ Egialitis vociferus. June 2, 1885, Ft. Verde at mouth
of Beaver Creek. Nest a bed of white pebbles as large
as beans, carefully arranged in cup-shape, the size of
an ordinary tea saucer. Perfectly fresh. Locality a
sand flat, covered with dark gray stones, mixed with
white limestone. Discovered by watching the parents.

Box No. 29.

- No. Set 2 Zenaidura macroura. May 26, 1886. Ft. Verde, Arizona.
- " " 17-15 Callipepla gambeli. May 8, 1886. Ft. Verde. See Journ. p. 218.
- " " 6 Lanius lud. excubitorides. April 13, 1886. Ft. Verde. Nest in a haw-bush, 4 feet from the ground.
- No. Set 17 Pipilo aberti. May 19, 1886. Ft. Verde. Lower limbs of ^(wood) cotton.
- No. Set 2 Tyrannus verticalis. May 26, 1886. Ft. Verde, Arizona. Nest in a sycamore-tree.
- No. Set 4 Icteria virens longicauda. May 26, 1886. Ft. Verde, A. T.
- " " 3 " " " do do
- " " 2 Zenaidura macroura. May 13, 1886. Ft. Verde, Arizona. Nest in a mesquite-bush, 4 feet from the ground. "nest preserved."
- No. Set 5 Lanius lud. excubitorides. April 11, 1886. Ft. Verde, Arizona. Nest in a haw-bush.
- No. Set 4 ^a Dryobates scalaris. April 27, 1886. Ft. Verde, A. T. Nest in a cottonwood stump 10 feet from ground.
- No. Set 4-1 ^c Campylorhynchus brunneicapillus. Parent 3867 ♂ ad. Casa Grande, Arizona, April 2, 1885. Built in cholla cactus, five feet from the ground.
- No. Set 4 Mimus polyglottus. Ft. Verde, Arizona, June 2, 1886¹⁸⁸⁶. Nest in a sagebush, 3 feet from the ground.

Box No. 30.

- No. Set 2 Zenaidura macroura. May 26, 1886. Ft. Verde, Arizona.
- No. Set 3-2 ^B Aphelocoma woodhousei. May 8, 1886. Ft. Verde, Arizona. See Journal p. 217.
- No. 2 Set 1 ^A Zenaidura macroura. June 1, 1885, Ft. Verde, Arizona. Built oblique trunk of willow, resting on branchlets, ten feet from the ground.
- No. Set 3 ^H Phainopepla nitens. June 20, 1884. In willow-like bush ("desert willow") near Ft. Verde, Arizona.

- Two odd eggs of Parpodacus frontalis.
 Ft. Verde, Arizona ^{May 10,} 1887. From different nests
- No. Set $\frac{9}{2}$ Phainopepla nitens. In a cedar tree near
 Ft. Verde, Arizona, June 20, 1884.
- No. Set $\frac{3}{3}$ Sayornis saya. June 2, 1885. Ft. Verde, Arizona.
 Built in a limestone shelf in side-wall of a
 deep, narrow cañon, near Verde River.
- No. Set 4 Minus polyglottus. June 1, 1885. Ft. Verde, Arizona.
 Nest in mesquite, 3 feet from the ground.
- No. Set 2 Harporhynchus crissalis. Feb. 18, 1886. Ft. Verde, A.T.
 Nest, 2 eggs & both parents.
- No. Set 2 Zenaidura macroura. June 2, 1885. Ft. Verde, A.T.
 Built in fork of cottonwood tree, 7 feet from ground.
- No. Set 5 Sayornis saya. April 8, 1886. Fort Hospital, Fort
 Verde, Arizona. Built on top of a pillar of porphyry.
 See Journal, page 187.
- No. Set 2 Zenaidura macroura. July 18, 1884. Ft. Verde, Arizona.
- No. Set 5 Petrochelidon lunifrons. June 3, 1884 do
- No. Set 4 do do do do
- No. Set 7 Geococcyx californianus, June 11, 1884 do
 Measures 31.7 x 40 mm. Fresh Nest in mesquite

Box No. 31.

- No. Set 2 Zenaidura macroura. May 29, 1886. Ft. Verde, Arizona.
- No. Set 2 Callipepla gambeli. June 6, 1885. do
 Nest built in a little cavity in the side of
 an arroyo, so small that the enormous clutch
 of eggs filled it two layers deep.
 also fragments of shells of eggs of Falco peregrinus naevius from
 Beaver Creek, near Ft. Verde, June 3, 1885.

Box No. 32.

- No. Set 3 Callipepla gambeli. June 29, 1885. Eggs dried in the
 sun. Ft. Verde, Arizona July 29, 1885.

No. Set 12 Callipepla gambeli. June 20, 1886. Ft. Verde, Arizona.

Fragments of egg shells of Falco peregrinus naevius from eyrie on Beaver Creek Cliff near Fort Verde, Arizona, April 26, 1886.

No. Set - Nest of Poliophtila plumbea. Label within it.

No. Set 2 " " Troctylus alexandri, Ft. Verde, Arizona June 2, 1885. Built in branch of largest china tree, at mouth of Beaver Creek. One young one hatched after I took the nest & was preserved in alcohol.

Box No. 33.

No. Set 18 Callipepla gambeli. Fort Verde Arizona June 13, 1885.

No. Set 2 Zenaidura macroura, May 26, 1886. Fort Verde, Arizona.

No. Set 3 Harporhynchus crissalis. May, 26, 1886. Ft. Verde, Arizona. Nest in dense growth of lowest branchlets clustering around the trunk of a cottonwood-tree.

No. Set 2 Zenaidura macroura. June 1, 1886. Fort Verde, Arizona.

Box No. 34

No. Set 13 Callipepla gambeli. May, 20, 1886. Ft. Verde.

No. Set 2 Zenaidura macroura. July, 17, 1886. Ft. Verde.

No. Set 3 Harporhynchus crissalis. March 16, 1887. do

No. Set 2 Zenaidura macroura. July 19, 1884. do

No. Set 3 Pipilo aberti. July 2, 1884. Ft. Verde, A. T. See Journal p. 128

No. Set 4 Icterus bullocki, Ft. Verde, A. T. Nest preserved.

No. Set 3 Harporhynchus crissalis July 2, 1884. Fort Verde, Arizona.